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**From:** Wayne Miller [Miller.Wayne@azdeq.gov]  
**Sent:** 2/9/2015 4:03:28 PM  
**To:** d'Almeida, Carolyn K. [dAlmeida.Carolyn@epa.gov]  
**CC:** steve [steve@uxopro.com]  
**Subject:** 2015-2-9 - wafb - capture concern at ST012 - yes -

I believe ADEQ management intent is to have the administrative documents note that containment concerns have been consistently voiced by regulatory agencies.

Both Steve and I noticed the W37 accumulation increase. Thank Eva for the insight. I appreciate her SEE knowledge and the insight she has from Pre-TEE, TEE, and Post-Tee analyses.

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**From:** d'Almeida, Carolyn K. [mailto:dAlmeida.Carolyn@epa.gov]  
**Sent:** Thursday, February 05, 2015 3:23 PM  
**To:** Wayne Miller  
**Cc:** Davis, Eva  
**Subject:** 2015-2-5 - wafb - capture concern at ST012 - cda - eva davis EPA

See Eva's response we should bring up on the next call

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**From:** Davis, Eva  
**Sent:** Thursday, February 05, 2015 2:17 PM  
**To:** d'Almeida, Carolyn K.  
**Subject:** RE: 2015-2-5 - wafb - capture concern at ST012

Lost capture? It was never captured in the first place –

I noticed too that LNAPL accumulation in W37 continues to increase, now 17.45 feet! But that well had some accumulation well before steam injection was initiated, and accumulations in wells are controlled by a variety of things. Lowering the water table even can release some of it from the soil, or allow some that had been floating to now enter the well. They do show higher water levels in a lot of the LSZ wells, but these wells are too far away to be impacted by the steam zone, as we talked about on the last call, this is a pressure pulse but not a movement of water as far away from the treatment area as that well. Figure 24 of the weekly report shows that there is a lot of variation in the temperatures in these surrounding wells, but the highest temperature in any of them is still less than 31C. Wonder though why they aren't measuring temperature in W37 –

Of course we can talk to them about it, I can check the benzene data again too (I had looked at it before the last conference call). I am in until about noon tomorrow, then I'm available early next week after about 10 am CST.

Eva

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**From:** d'Almeida, Carolyn K.  
**Sent:** Thursday, February 05, 2015 4:03 PM  
**To:** Davis, Eva  
**Subject:** FW: 2015-2-5 - wafb - capture concern at ST012

Eva -

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**From:** Wayne Miller [<mailto:Miller.Wayne@azdeq.gov>]  
**Sent:** Thursday, February 05, 2015 1:59 PM  
**To:** d'Almeida, Carolyn K.  
**Cc:** steve  
**Subject:** 2015-2-5 - wafb - capture concern at ST012

Just a heads up. Lost capture at ST012 is a Harry Hendler concern. LNAPL at well 37 and benzene at other downgradient wells have Harry intrigued. Harry may want to conference call EPA San Fran, EPA consultants, EPA Eva Davis, etc. week of Mar. 23 if research and continued sampling indicate LNAPL, benzene, etc. at downside and beyond edges.

Wayne Miller,  
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